

ABSTRACT

This invention is to a process of making olefin, particularly ethylene and propylene, from an oxygenate feed. The invention uses two or more zeolite catalysts. Examples of zeolite catalysts include a first catalyst containing of ZSM-5, and a second catalyst containing a 10-ring molecular sieve, including but not limited to, ZSM-22, ZSM-23, ZSM35, ZSM-48, and mixtures thereof. The ZSM-5 can be unmodified, phosphorous modified, steam modified having a micropore volume reduced to not less than 50% of that of the unsteamed ZSM-5, or various mixtures thereof.

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